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The "AND" operator is unnecessary -- we include all search terms by default. [details]

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Were a system able to present content in a **relationship-driven context**, a computer could ... [0057] The **universal data** store 302 of the **storage** platform 300 ...
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System and a method for presenting items to a user with a ...

[0064] The **universal data** store 302 of the **storage** platform 300 of the present invention ... By allowing explorers to be created in a **data-driven** way, ...
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Data Modeling
Data models describe structured **data** for **storage** in **data** management systems such as relational ... in order to define a **universal context** for the model. ...
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Once this is. done, a common **data** transfer mechanism (using a single, **universal data** transfer protocol) can be. used for all of the **storage** systems. **...**
www.globus.org/toolkit/docs/3.0/gridftp/C2WPdraft3.pdf - Similar pages

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TOWARD A **UNIVERSAL DATA** FORMAT FOR THE PRESERVATION OF MEDIA. Dave MacCarn **...** An object container is just some form of **data storage** (such as a file. **...**
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Microsoft talks up **universal data** system

Microsoft talks up **universal data** system ... "We have this great **storage** technology that Microsoft owns, and we will share that technology with other ...
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The "AND" operator is unnecessary -- we include all search terms by default. [details]

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System and method for the presentation of items stored on a ...

[0012] Accordingly, there is a need for an **improved shell** that is capable of displaying each item within a **universal data** store, and further, ...
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Terms used **top level structure** or **base schema** Found **113,068** of

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1 Data base directions: the next steps

John L. Berg
November 1976 **ACM SIGMOD Record , ACM SIGMIS Database**, Volume 8 , 8 Issue 4 , 1
Publisher: ACM Press
Full text available: pdf(9.95 MB) Additional Information: full citation, abstract, citings

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bure Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditi evolving technology, government regulations, standards, and user experience. Each are prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technolog assessment, user experience

2 Probabilistic object bases

Thomas Eiter, James J. Lu, Thomas Lukasiewicz, V. S. Subrahmanian
September 2001 **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 3
Publisher: ACM Press
Full text available: pdf(663.73 KB) Additional Information: full citation, abstract, references, citi index terms

Although there are many applications where an object-oriented data model is a good wa representing and querying data, current object database systems are unable to handle objects whose attributes are uncertain. In this article, we extend previous work by Korna and Shimony to develop an algebra to handle object bases with uncertainty. We propose concepts of consistency for such object bases, together with an NP-completeness result, classes of probabilistic object bases for which consi ...

Keywords: Consistency, object-oriented database, probabilistic object algebra, probabil object base, probability, query language, query optimization

3 From information requirements to DBTG-data structures

J. A. Bubenko, S. Berild, E. Lindencrona-Ohlin, S. Nachmens

March 1976 **ACM SIGPLAN Notices , ACM SIGMOD Record , Proceedings of the 197 conference on Data : Abstraction, definition and structure**, Volume 11 , Issue SI , 2

Publisher: ACM Press

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, citi index terms

The problem of determining, analysis and description of a particular application's informa structure (and relations) and the process of mapping the information structure to a "goo data structure (in this case a DBTG-type structure) is considered. The applicability of a t down oriented design procedure to a relatively large practical data base design case is demonstrated. A conceptual framework and a notation to be used for determining and definition of information requir ...

4 Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona

Thomas Haigh

January 2006 **ACM Oral History interviews**

Publisher: ACM Press

Full text available: pdf(761.66 KB) Additional Information: full citation, abstract

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during World War II. After hi discharge from the military, Bachman earned a B.Sc. in Mechanical Engineering in 1948, followed immediately by an M.Sc. in the same discipline, from the University of Pennsylv On graduation, he went to work for Do ...

5 Special issue: AI in engineering

D. Sriram, R. Joobbani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in t July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The inte being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

6 The design and implementation of K: a high-level knowledge-base programming language of OSAM*.KBMS

Yuh-Ming Shyy, Javier Arroyo, Stanley Y.W. Su, Herman Lam

August 1996 **The VLDB Journal — The International Journal on Very Large Data Ba** Volume 5 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(187.89 KB) Additional Information: full citation, abstract, citings, index te

The OSAM*.KBMS is a knowledge-base management system, or the so-called next-gene

database management system, for non-traditional data/knowledge-intensive application order to define, query, and manipulate a knowledge base, as well as to write codes to implement any application system, we have developed an object-oriented knowledge-ba programming language called K to serve as the high-level interface of OSAM*.KBMS. Thi paper presents the design of K, its implementation, and its supp ...

Keywords: Abstractions, Association patterns, Knowledge-base programming language, Object-oriented knowledge model, Structural associations

7 On the architecture of a system integrating data base management and information retrieval

Horst Biller

May 1982 **Proceedings of the 5th annual ACM conference on Research and development in information retrieval SIGIR '82**

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(992.17 KB) Additional Information: full citation, abstract, references, citi

The data model, i.e. data structures and operations needed for a system integrating the management of formated textual data (DBMIRS) are discussed. It is investigated how th data model fits into the ANSI-SPARC three schema architecture for data base manageme systems. The conclusion is that the DBMIRS should be regarded to be a new external da model. This would require only small changes to the concepts discussed so far for the conceptual and internal level. The advantages of this approach ...

8 Special issue on user modeling: Tailoring object descriptions to a user's level of expertise

Cécile L. Paris

September 1988 **Computational Linguistics**, Volume 14 Issue 3

Publisher: MIT Press

Full text available: pdf(1.63 MB) Publisher Site Additional Information: full citation, abstract, references, citi

A question answering program providing access to a large amount of data will be most u if it can tailor its answers to each individual user. In particular, a user's level of knowled about the domain of discourse is an important factor in this tailoring if the answer provic to be both informative and understandable to the user. In this research, we address the of how the user's domain knowledge can affect an answer. By studying texts, we found t the user's level of domain kno ...

9 The theory of parsing, translation, and compiling

Alfred V. Aho, Jeffrey D. Ullman

January 1972 Book

Publisher: Prentice-Hall, Inc.

Full text available: pdf(98.28 MB) Additional Information: full citation, abstract, references, citi index terms

From volume 1 Preface (See Front Matter for full Preface)

This book is intended for a one or two semester course in compiling theory at the senior graduate level. It is a theoretically oriented treatment of a practical subject. Our motivat for making it so is threefold.

(1) In an area as rapidly changing as Computer Science, sound pedagogy demands that courses emphasize ideas, rather than implementation details. It is our hope that the algorithms and concepts presen ...

10 Session: database languages and models: The semantic data model: a modelling mechanism for data base applications

Michael Hammer, Dennis McLeod

May 1978 **Proceedings of the 1978 ACM SIGMOD international conference on management of data SIGMOD '78**

Publisher: ACM Press

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, citi

Conventional data models are not satisfactory for modelling data base application systen The features that they provide are too low level and representational to allow the seman of a data base to be directly expressed in the schema. The semantic data model (SDM) h been designed as a natural application modelling mechanism that can capture and expre the structure of an application environment. The features of the SDM correspond to the principal intensional structures naturally occurring ...

Keywords: data base management, data base modelling, data base user interfaces, dat definition, data models, data semantics, information redundancy, logical data base desig

11 Semantic database modeling: survey, applications, and research issues

Richard Hull, Roger King

September 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 3

Publisher: ACM Press

Full text available: pdf(5.42 MB) Additional Information: full citation, abstract, references, citi index terms, review

Most common database management systems represent information in a simple record-l format. Semantic modeling provides richer data structuring capabilities for database applications. In particular, research in this area has articulated a number of constructs tl provide mechanisms for representing structurally complex interrelations among data typ arising in commercial applications. In general terms, semantic modeling complements w on knowledge representation (in artificial int ...

12 Systems: Structure from anarchy: meta level representation of expert system propositions for natural language interfaces

Galina Datskovsky Moerdler

February 1988 **Proceedings of the second conference on Applied natural language processing**

Publisher: Association for Computational Linguistics

Full text available: pdf(685.46 KB) Publisher Site Additional Information: full citation, abstract, references

In this paper we describe a meta level representation used for mapping natural language input into propositions of an expert system. This representation is based on verb classes are structured hierarchically, with more general information encoded in the top level nod and more specific information in the lower level nodes. Because of its structure, the representation is able to provide a detailed classification of the propositions, supplying a for defining semantics. It allows the sy ...

13 A survey of approaches to automatic schema matching

Erhard Rahm, Philip A. Bernstein

December 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(196.22 KB) Additional Information: full citation, abstract, citings, index te

Schema matching is a basic problem in many database application domains, such as dat integration, E-business, data warehousing, and semantic query processing. In current implementations, schema matching is typically performed manually, which has significar limitations. On the other hand, previous research papers have proposed many technique achieve a partial automation of the match operation for specific application domains. We present a taxonomy that covers many of these existing approach ...

Keywords: Graph matching, Machine learning, Model management, Schema integration Schema matching

14 Version models for software configuration management

Reidar Conradi, Bernhard Westfechtel

June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Publisher: ACM Press

Full text available: pdf(483.54 KB) Additional Information: full citation, abstract, references, citi index terms

After more than 20 years of research and practice in software configuration managemen (SCM), constructing consistent configurations of versioned software products still remain challenge. This article focuses on the version models underlying both commercial syster research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we foc ...

Keywords: changes, configuration rules, configurations, revisions, variants, versions

15 Object orientation in multidatabase systems

Evaggelia Pitoura, Omran Bukhres, Ahmed Elmagarmid

June 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 2

Publisher: ACM Press

Full text available: pdf(4.85 MB) Additional Information: full citation, abstract, references, citi index terms, review

A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogen

and autonomous database systems. There has been a recent proliferation of research suggesting the application of object-oriented techniques to facilitate the complex task of designing and implementing MDBSs. Although this approach seems promising, the lack c general framework impedes any further development. The goal of this paper is to provid concrete analysis and categorization of the various ...

Keywords: distributed objects, federated databases, integration, multidatabases, views

16 Federated database systems for managing distributed, heterogeneous, and autono databases

Amit P. Sheth, James A. Larson

September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3

Publisher: ACM Press

Full text available: pdf(5.02 MB) Additional Information: full citation, abstract, references, citi index terms, review

A federated database system (FDBS) is a collection of cooperating database systems tha autonomous and possibly heterogeneous. In this paper, we define a reference architectu distributed database management systems from system and schema viewpoints and shc how various FDBS architectures can be developed. We then define a methodology for developing one of the popular architectures of an FDBS. Finally, we discuss critical issue: related to developing and operating an FDBS.

17 The relational model for database management: version 2

E. F. Codd

January 1990 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(28.61 MB) Additional Information: full citation, abstract, references, citi index terms, review

From the Preface (See Front Matter for full Preface)

An important adjunct to precision is a sound theoretical foundation. The relational model solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather c the features of the relational model that I now perceive as important for database users, therefore for DBMS vendors. My perceptions result from 20 y ...

18 Data base design: Data description for computer-aided design

Ann Ellis Bandurski, David K. Jefferson

May 1975 **Proceedings of the 1975 ACM SIGMOD international conference on Management of data SIGMOD '75**

Publisher: ACM Press

Full text available: pdf(945.66 KB) Additional Information: full citation, abstract, references, citi

Data Description Languages (DDLs) usually are discussed in terms of business data processing applications. This paper describes the importance of DDLs in computer-aided design (CAD). Users of CAD systems are compared with users of business data processir systems, and are shown to have radically different skills, view data in different ways, an

perform different operations upon data. Users of CAD systems are concerned not so muc with frequent update or casual interrogation as with powerful and ...

19 Planning text for advisory dialogues: capturing intentional and rhetorical information
Johanna D. Moore, Cécile L. Paris
December 1993 **Computational Linguistics**, Volume 19 Issue 4
Publisher: MIT Press
Full text available: pdf(3.22 MB)
Publisher Site
Additional Information: full citation, abstract, references, citi

To participate in a dialogue a system must be capable of reasoning about its own previo utterances. Follow-up questions must be interpreted in the context of the ongoing conversation, and the system's previous contributions form part of this context. Furtherr if a system is to be able to clarify misunderstood explanations or to elaborate on prior explanations, it must understand what it has conveyed in prior explanations. Previous approaches to generating multisentential texts have relied ...

20 XIRQL: An XML query language based on information retrieval concepts
Norbert Fuhr, Kai Großjohann
April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2
Publisher: ACM Press
Full text available: pdf(281.91 KB)
Additional Information: full citation, abstract, references, citi index terms

XIRQL ("circle") is an XML query language that incorporates imprecision and vagueness i both structural and content-oriented query conditions. The corresponding uncertainty is handled by a consistent probabilistic model. The core features of XIRQL are (1) documer ranking based on index term weighting, (2) specificity-oriented search for retrieving the relevant parts of documents, (3) datatypes with vague predicates for dealing with specif types of content and (4) structural vagueness f ...

Keywords: Path algebra, XML, XQuery, probabilistic retrieval, ranked retrieval, vague predicates

Terms used **universal data storage** and **shell** Found **53,557** of

Sort results by relevance
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Best 200 shown Relevance scale

1 Redundancy: Using free web storage for data backup
Avishay Traeger, Nikolai Joukov, Josef Sipek, Erez Zadok
October 2006 **Proceedings of the second ACM workshop on Storage security and survivability StorageSS '06**
Publisher: ACM Press
Full text available: pdf(205.78 KB) Additional Information: full citation, abstract, references, ind terms

Backing up important data is crucial. A variety of causes can lead to data loss, such as d failures, administration errors, virus infiltration, theft, and physical damage to equipmen Users and businesses have important information that is difficult to replace, such as fina records and contacts. Reliable backups are crucial because some data cannot be replace while recreating other data can be expensive in terms of time and money. We propose t methods which leverage various types of ...

Keywords: backup, web services

2 An overview of High Performance Fortran
Charles Koelbel
December 1992 **ACM SIGPLAN Fortran Forum**, Volume 11 Issue 4
Publisher: ACM Press
Full text available: pdf(591.89 KB) Additional Information: full citation, abstract, citings, index te

Since its introduction over three decades ago, Fortran has been the language of choice f scientific programming for sequential computers. Exploiting the full capability of modern architectures, however, increasingly requires more information than ordinary Fortran 77 Fortran 90 programs provide. This information applies to such areas as• Opportunit for parallel execution• Type of available parallelism - MIMD, SIMD, or some combination• Allocation of data among i ...

3 ERGO-Shell: a UNIX-interface for task preparation
Wolfgang Dzida, Regine Freitag, Wilhelm Valder
March 1991 **Proceedings of the SIGCHI conference on Human factors in computin**

systems: Reaching through technology CHI '91
Publisher: ACM Press
Full text available: pdf(236.37 KB) Additional Information: full citation, index terms

4 "A veritable bucket of facts" origins of the data base management system
Thomas Haigh
June 2006 **ACM SIGMOD Record**, Volume 35 Issue 2
Publisher: ACM Press
Full text available: pdf(829.15 KB) Additional Information: full citation, abstract, references, ind terms

The data base concept derives from early military on-line systems, and was not originall associated with the specific technologies of modern data base management systems. Wh the idea of an integrated data base, or "bucket of facts," spread into corporate data processing and management circles during the early 1960s, it was seldom realized in pra File-processing packages were among the very first distributed as supported products, b only in the late 1960s were they first called "data ...

5 The relational model for database management: version 2
E. F. Codd
January 1990 Book
Publisher: Addison-Wesley Longman Publishing Co., Inc.
Full text available: pdf(28.61 MB) Additional Information: full citation, abstract, references, citi index terms, review

From the Preface (See Front Matter for full Preface)

An important adjunct to precision is a sound theoretical foundation. The relational model solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather the features of the relational model that I now perceive as important for database users, therefore for DBMS vendors. My perceptions result from 20 y ...

6 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems
Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longene
December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems IS '97**, Volume 28 Issue 1
Publisher: ACM Press
Full text available: pdf(7.24 MB) Additional Information: full citation, citings

7 Design methodology of boundary data structures
S. R. Ala
May 1991 **Proceedings of the first ACM symposium on Solid modeling foundations CAD/CAM applications SMA '91**

Publisher: ACM Press
Full text available: pdf(916.49 KB) Additional Information: full citation, references, citings, index terms

8 Hierarchical data management
Jan M. Engel
September 1976 **Proceedings of the eighth international conference on APL APL '7**
Publisher: ACM Press
Full text available: pdf(1.13 MB) Additional Information: full citation, abstract, index terms

An APL program has been developed for storing and maintaining relevant information ab group of persons linked together by a structured hierarchy. Functions that create, modif develop useful output from the data set are described with reference to a working exam which further illustrates the approach used.

9 Web-based and Java-based simulation: VisualSLX: an open user shell for high-performance modeling and simulation
Thomas Wiedemann
December 2000 **Proceedings of the 32nd conference on Winter simulation WSC '0(**
Publisher: Society for Computer Simulation International
Full text available: pdf(222.24 KB) Additional Information: full citation, abstract, references, citi

SLX by Wolverine software is actually one of the fastest simulation languages. Besides th high performance the SLX-compiler can be extended very easily by user specific syntax and new basic functions. This "pyramid power" of SLX is used to build a new system for modeling and simulation --- VisualSLX. This system is a shell atop the standard SLX-com and the runtime system. All model and simulation data are stored in a universal databas VisualSLX could be used for a comfortable, rapi ...

10 Special issue on persistent object systems: Orthogonally persistent object systems
Malcolm Atkinson, Ronald Morrison
July 1995 **The VLDB Journal — The International Journal on Very Large Data Base:**
Volume 4 Issue 3
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(5.02 MB) Additional Information: full citation, abstract, references, citi

Persistent Application Systems (PASs) are of increasing social and economic importance. have the potential to be long-lived, concurrently accessed, and consist of large bodies of and programs. Typical examples of PASs are CAD/CAM systems, office automation, CASI tools, software engineering environments, and patient-care support systems in hospitals Orthogonally persistent object systems are intended to provide improved support for the design, construction, maintenance, and operation o ...

Keywords: database programming languages, orthogonal persistence, persistent applic systems, persistent programming languages

11 Evaluation of two relational database management systems: UNIFY and iDB

Lindsay McDermid
May 1986 **ACM SIGSMALL/PC Notes**, Volume 12 Issue 2
Publisher: ACM Press
Full text available: pdf(3.41 MB) Additional Information: full citation, abstract, index terms

The following document is an evaluation and comparison of two relational database management systems: UNIFY and iDB. UNIFY Release 3.1 runs on the NCR Tower iDB ru version of Mistress under iDIS Release 1.6 on the Intel 310.

12 Herbert R. Grosch interview: March 30, 1971
Richard R. Mertz
August 1999 **Computer Oral History Collection**
Publisher: Smithsonian Institution Press
Full text available: Publisher Site Additional Information: full citation

13 A taxonomy of computer program security flaws
Carl E. Landwehr, Alan R. Bull, John P. McDermott, William S. Choi
September 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 3
Publisher: ACM Press
Full text available: pdf(3.81 MB) Additional Information: full citation, abstract, references, citi index terms, review

An organized record of actual flaws can be useful to computer system designers, programmers, analysts, administrators, and users. This survey provides a taxonomy for computer program security flaws, with an Appendix that documents 50 actual security fl These flaws have all been described previously in the open literature, but in widely sepa places. For those new to the field of computer security, they provide a good introduction the characteristics of security flaws and how they ...

Keywords: error/defect classification, security flaw, taxonomy

14 General storage protection techniques: Securing distributed storage: challenges, techniques, and systems
Vishal Kher, Yongdae Kim
November 2005 **Proceedings of the 2005 ACM workshop on Storage security and survivability StorageSS '05**
Publisher: ACM Press
Full text available: pdf(294.61 KB) Additional Information: full citation, abstract, references, ind terms

The rapid increase of sensitive data and the growing number of government regulations require longterm data retention and protection have forced enterprises to pay serious attention to storage security. In this paper, we discuss important security issues related storage and present a comprehensive survey of the security services provided by the exi storage systems. We cover a broad range of the storage security literature, present a cri review of the existing solutions, compare ...

Keywords: authorization, confidentiality, integrity, intrusion detection, privacy

15 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4
Publisher: ACM Press

Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, references, citi index terms, review

Distributed operating systems have many aspects in common with centralized ones, but also differ in certain ways. This paper is intended as an introduction to distributed operat systems, and especially to current university research about them. After a discussion of constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current rese projects are examined in some detail ...

16 Selected IR-related dissertation abstracts

Susanne M. Humphrey
September 1989 **ACM SIGIR Forum**, Volume 24 Issue 1-2
Publisher: ACM Press
Full text available: pdf(3.70 MB) Additional Information: full citation

17 High performance Fortran language specification

CORPORATE Rice University
December 1993 **ACM SIGPLAN Fortran Forum**, Volume 12 Issue 4
Publisher: ACM Press
Full text available: pdf(5.69 MB) Additional Information: full citation, abstract, citings, index te

(PART I)Fortran Forum is reprinting this High Performance Fortran Language Specificatio over several issues. The current issue is devoted to the first four chapters of the HPFF Language Specification. Remaining chapters of the HPFF Language Specification, and the HPFF Journal of Development, will be printed in installments in filture issues of Fortran F

18 System support for pervasive applications

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderso Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall
November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4
Publisher: ACM Press

Full text available: pdf(1.82 MB) Additional Information: full citation, abstract, references, citi index terms

Pervasive computing provides an attractive vision for the future of computing. Computat power will be available everywhere. Mobile and stationary devices will dynamically conne and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a sy

architecture for pervasive computing, called & ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

19 SW 2 - An object-based programming environment

Mark R. Laff, Brent Hailpern

June 1983 **ACM SIGPLAN Notices , ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 85 symposium on Language issues in programming environments**, Volume 18 , 20 Issue 6 , 7

Publisher: ACM Press

Full text available: pdf(954.26 KB) Additional Information: full citation, abstract, references, citi index terms

Programming systems traditionally deal with only a few different types of data objects. Operating-system command languages, for example, are concerned with files and progr Typical programming languages deal with computer-related objects such as integers, str arrays, and records. This is in sharp contrast to the variety of real-world objects that pe reason about. Smallworld is a programming environment in which the real world is represented by objects that have ...

20 Accessing and storing data: Accessing sensor data using meta data: a virtual objec buffer framework

Arcot Rajasekar, Sifang Lu, Reagan Moore, Frank Vernon, John Orcutt, Kent Lindquist

August 2005 **Proceedings of the 2nd international workshop on Data management sensor networks DMSN '05**

Publisher: ACM Press

Full text available: pdf(1.66 MB) Additional Information: full citation, abstract, references, ind terms

With the proliferation of sensors it is becoming increasingly difficult to discover and acce sensor data of interest. Currently, most researchers and sensor data users access data f sensors that they build by themselves or from known sensor network run by their friend rarely do they try to find sensor data of interest that are maintained by other users and groups. Even if they are able to find these data streams, accessing them is rather difficu because of login requirements in remote s ...

Keywords: real-time data access, sensor networks, sensor virtualization, storage resou broker, virtual ring buffers

	Type	L #	Hits	Search Text	DBs
1	BRS	L3	124163	universal same (database data information item$1 object$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
2	BRS	L4	1302619	(universal adj data adj storage)".ab", ti, "clm."	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
3	BRS	L6	2	(universal adj data adj storage).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB

	Type	L #	Hits	Search Text	DBs
4	BRS	L7	13	(universal adj data adj storage).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
5	BRS	L5	9	(universal adj data adj storage).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
6	BRS	L8	514986	(type$1 SAME different SAME (data OR database$1 OR information OR item$1 OR object$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB

	Type	L #	Hits	Search Text	DBs
7	BRS	L9	32584	8 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
8	BRS	L10	6219	9 and (time OR date OR period$1 OR age$1) AND (shell$1 OR window$1) AND (associat$1 OR relation$3) AND (delet$3 OR remov$3 OR updat$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
9	BRS	L11	0	(universal adj data adj storage) same (time OR date OR period$1 OR age$1) AND (shell$1 OR window$1) AND (associat$3 OR relation$3) AND (delet$3 OR remov$3 OR updat$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB

	Type	L #	Hits	Search Text	DBs
10	BRS	L12	1	(universal adj data adj storage) and (time OR date OR period$1 OR age$1) AND (shell$1 OR window$1) AND (associat$3 OR relation$3) AND (delet$3 OR remov$3 OR updat$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
11	BRS	L13	22314	3 and (time OR date OR period$1 OR age$1) AND (shell$1 OR window$1) AND (associat$3 OR relation$3) AND (delet$3 OR remov$3 OR updat$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
12	BRS	L14	172	10 and 707/100.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB

	Type	L #	Hits	Search Text	DBs
13	BRS	L15	186	10 and 707/104.1.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
14	BRS	L16	28	10 and 707/201.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
15	BRS	L17	175	10 and 707/102.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB

	Type	L #	Hits	Search Text	DBs
16	BRS	L18	141894	(access$3 display$3 retriev$3) same (time OR date OR period$1 OR age$1) AND (shell$1 OR window$1) AND (associat$3 OR relation$3) AND (delet$3 OR remov$3 OR updat$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
17	BRS	L19	99053	(access$3 display$3 retriev$3) same (data OR database$1 OR information OR item$1 OR object$1) same (time OR date OR period$1 OR age$1) AND (shell$1 OR window$1) AND (associat$3 OR relation$3) AND (delet$3 OR remov$3 OR updat$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
18	BRS	L20	2283	(access$3 display$3 retriev$3) same (data OR database$1 OR information OR item$1 OR object$1) same (time OR date OR period$1 OR age$1) same (shell$1 OR window$1) same (associat$3 OR relation$3) same (delet$3 OR remov$3 OR updat$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB

	Type	L #	Hits	Search Text	DBs
19	BRS	L21	44	20 and 709/217-219.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
20	BRS	L22	37	20 and 709/220-224.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
21	BRS	L23	6	20 and 709/231.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB

	Type	L #	Hits	Search Text	DBs
22	BRS	L24	38	20 and 707/10.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
23	BRS	L25	10	20 and 715/500.1.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB
24	BRS	L26	26	20 and 715/733,853.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB